

**What is claimed is:**

1. A shot blast machine comprising:

a case having a front panel with openings formed at an upper and a lower

5 portions thereof

a support frame for a door, attaching to a back surface of the front panel of the case and supporting the door which opens up the upper opening after it moves slidely to a downward direction;

a door which is attached to the support frame slidably to the upper and lower

10 directions , supporting at a state that the upper opening is closed;

a partition wall which is formed in the shape of a hopper and fenced off so as to characterize the upper part of the case as a blast-processing chamber and the lower part thereof as a processing chamber for projection material;

a support device attached to blast-processing chamber so as to rotate while the

15 product with weld flash is supported;

a picking device which is installed into the processing chamber, selecting the projection material and weld flash which fall from the partition wall; and

a projector which is attached to the case so as to project a projection material to the product with weld flash which is supported by the support device after the 20 projection material which is selected by the picking device is suck in.

2. A shot blast machine according to claim 1, wherein the door further includes a door automatic device, capable of opening and closing the door automatically.

3. A shot blast machine according to claim 1, further comprising:

a refrigerant supply device which supplies a refrigerant into the

25 blast-processing chamber.